

G O D W I N G R U B E R

Attorneys
A Professional Corporation1201 Elm, Suite 1700
Dallas, Texas 75270-2084
214.939.4400
214.760.7332 Fax
godwingruber.com

FAX	Number of Pages	2	Date of	5/23/2002
	(including Cover Sheet)		Transmittal	

To	Company	Phone	Fax
Examiner Pittman	USPTO		703-872-9310

From Gary C. Honeycutt (214) 939-8651

Client/Matter Number 50000.2125 (TI-30589)

Comments

Please find attached the Appendix for Serial No. 09/817,696.

Please confirm receipt of fax.

FAX RECEIVED
MAY 23 2002
GROUP 1700

Unofficial

If you do not receive all materials being transmitted, please call Emily Chantry at (214) 939-8658

This facsimile message is privileged and confidential and intended only for the use of the individual or entity named above. If the reader of this message is not the intended recipient, or the employee or agent responsible to deliver it to the intended recipient, you are hereby notified that any dissemination, distribution or copying of this communication in error is strictly prohibited. Please immediately notify us by telephone, and return the original message to us at the address above via the U.S. postal service.

Table

Thickness (micrometers) of barrier metal layer required to reduce updiffusion of underlying metal by more than 80%

Time (minutes)	250 (degrees C)	160 (degrees C)
Copper in Platinum		
3	4.68E-07	1.79E-09
60	2.09E-06	8.01E-09
1440	1.03E-05	3.93E-08
4320	1.78E-05	6.80E-08
Copper in Nickel		
3	5.39E-07	2.16E-09
60	2.41E-06	9.66E-09
1440	1.18E-05	4.73E-08
4320	2.04E-05	8.19E-08
Copper in Palladium		
3	1.30E-01	9.00E-02
60	5.60E-01	4.10E-01
1440	2.75E+00	2.00E+00
4320	4.76E+00	3.46E+00
Nickel in Gold		
3	9.10E-01	1.10E-01
60	4.06E+00	5.10E-01
1440	1.99E+01	2.51E+00
4320	3.45E+01	4.35E+00
Nickel in Palladium		
3	2.70E-02	8.00E-03
60	1.22E-01	3.80E-02
1440	5.98E-01	1.85E-01
4320	1.04E+00	3.20E-01

APPENDIX.